

Amendments to the Claims

The listing of claims will replace the previous version, and the listing of claims:

Listing of Claims

1. (Currently amended) A coated metal formed article, comprising:
 a metal formed article, prepared by sequentially forming
 a zinc-containing porous coating layer laminated on a surface
of the metal formed article,

a phenol-modified silicon compound layer laminated on the
zinc-containing porous coating layer, and

a fluorine resin-containing layer laminated on the phenol-
modified silicon compound layer on the surface of a metal formed
article, wherein characterized in that the fluorine resin-
containing layer contains a fluorine resin and as well as at least
one organic resin selected from a polyester resin, a polyacryl
resin, a polyolefin resin, a polyurethane resin, and a
polycarbonate resin,

wherein an where the amount of the fluorine resin added is in
a the range of 1 to 200 parts by weight with respect to 100 parts
by weight of the organic resin, and

wherein when a thickness of the phenol-modified silicon
compound layer is t2 (μm) and a thickness of the fluorine resin-
containing layer is t1 (μm), a ratio of t1 to t2 is in a range of
0.05 to 50 so that dimensional accuracy and mechanical properties
are increased.

2. (Canceled)

3. (Currently amended) The coated metal formed article as described in claim 1 ~~or claim 2~~, wherein

when a ~~the~~ thickness of the zinc-containing porous coating layer is t_3 (μm), a ratio of t_2 to t_3 is in a ~~the~~ range of 0.06 to 10.

4. (Currently amended) The coated metal formed article as described in claim 1, wherein the thickness (t_1) of the fluorine resin-containing layer is in a ~~the~~ range of 0.5 to 1,000 μm , the thickness (t_2) of the phenol-modified silicon compound layer is in a ~~the~~ range of 1 to 100 μm , and a ~~the~~ thickness (t_3) of the zinc-containing porous coating layer is in a ~~the~~ range of 3 to 50 μm .

5. (Currently Amended) The coating metal formed article as claimed in claim 1, wherein the phenol-modified silicon compound layer comprises a mixture or reactant of a silicon compound and a phenol compound, and an ~~the~~ amount of the phenol compound added is in a ~~the~~ range of 10 to 50 parts by weight with respect to 100 parts by weight of the silicon compound.

6. (Currently Amended) The coated metal formed article as described in claim 1, wherein the fluorine resin-containing layer contains a lubricant agent, and an ~~the~~ amount of the lubricant agent added is in a ~~the~~ range of 1 to 30 parts by weight with respect to 100 parts by weight of the fluorine resin.

7. (Currently Amended) The coated metal formed article as described in claim 1, wherein the fluorine resin-containing layer contains a coloring agent, and an ~~the~~ amount of the coloring agent added is in a ~~the~~ range of 1 to 30 parts by weight with respect to 100 parts by weight of the fluorine resin.

8. (Currently Amended) A method for forming a coated metal formed article, ~~characterized by sequentially~~ comprising the following steps (1) to (4):

(1) preparing step for a metal formed article;

(2) forming step for a zinc-containing porous layer on the metal formed article by using a thermal-spraying device;

(3) forming step for a phenol-modified silicon compound layer on the zinc-containing layer;

(4) forming step for a fluorine resin-containing layer on the phenol-modified silicon compound layer, said fluorine resin-containing layer including that contains a fluorine resin and as well as at least one organic resin selected from a polyester resin, a polyacryl resin, a polyolefin resin, a polyurethane resin, and a polycarbonate resin, wherein an ~~where the~~ amount of the fluorine resin added is in a the range of 1 to 200 parts by weight with respect to 100 parts by weight of the organic resin, and

wherein when a thickness of the phenol-modified silicon compound layer is t_2 (μm) and a thickness of the fluorine resin-containing layer is t_1 (μm), a ratio of t_1 to t_2 is in a range of 0.05 to 50 so that dimensional accuracy and mechanical properties are increased.

9-12. (canceled)

13. (New) The coated metal formed article as described in claim 1, wherein the amount of the fluorine resin added is in a range of 10 to 40 parts by weight with respect to 100 parts by weight of the organic resin for further enhancing an anti-rust property.

14. (New) The method for forming the coated metal formed article as described in claim 8, wherein the amount of the fluorine resin added is in a range of 10 to 40 parts by weight with respect to 100

parts by weight of the organic resin for further enhancing an anti-rust property.

15. (New) The coated metal formed article as described in claim 1, wherein the zinc-containing porous coating layer has a porous structure so that the phenol-modified silicon compound layer is introduced into the porous structure to form a complex and firmly adhered with the zinc-containing porous coating.

16. (New) The method for forming the coated metal formed article as described in claim 8, wherein the zinc-containing porous coating layer has a porous structure so that the phenol-modified silicon compound layer is introduced into the porous structure to form a complex and firmly adhered with the zinc-containing porous coating.

17. (New) A coated metal formed article, consisting essentially of:
a metal formed article,
a zinc-containing porous coating layer laminated on a surface of the metal formed article,
a phenol-modified silicon compound layer laminated on the zinc-containing porous coating layer, and
a fluorine resin-containing layer laminated on the phenol-modified silicon compound layer, wherein the fluorine resin-containing layer contains a fluorine resin and at least one organic resin selected from a polyester resin, a polyacryl resin, a polyolefin resin, a polyurethane resin, and a polycarbonate resin, wherein an amount of the fluorine resin added is in a range of 10 to 40 parts by weight with respect to 100 parts by weight of the organic resin, and

wherein when a thickness of the phenol-modified silicon compound layer is t_2 (μm) and a thickness of the fluorine resin-containing layer is t_1 (μm), a ratio of t_1 to t_2 is in a range of

0.05 to 50 so that dimensional accuracy and mechanical properties are increased.

18. (New) The coated metal formed article as described in claim 17, wherein the zinc-containing porous coating layer has a porous structure so that the phenol-modified silicon compound layer is introduced into the porous structure to form a complex and firmly adhered with the zinc-containing porous coating.